

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05270

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02F1/1345 G02F1/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data, IBM-TDB, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10, 31 October 1996 (1996-10-31) -& JP 08 146448 A (SONY CORP), 7 June 1996 (1996-06-07) abstract figures 1,2	1-3,13
Y		4,10-12
Y	US 5 625 476 A (KIM DONG-KYU) 29 April 1997 (1997-04-29) cited in the application abstract figures 8-13	4,10,11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

11 March 2004

Date of mailing of the international search report

23/03/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 721 599 A (CHENG JIA-SHYONG) 24 February 1998 (1998-02-24) abstract figure 3 -----	12

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PCT/IB 03/05270

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 08146448	A	07-06-1996	JP	3337045 B2	21-10-2002
US 5625476	A	29-04-1997	KR	139374 B1	15-06-1998
			JP	8271924 A	18-10-1996
US 5721599	A	24-02-1998	NONE		